



SOLVAY

asking more from chemistry®

**Status Update
PFNA Investigation
Solvay Specialty Polymers
USA, LLC
West Deptford, NJ, Plant**

May 7, 2014

**SPECIALTY
POLYMERS**

Meeting Goals

Iterative process – will continue to evolve as data are collected

- 1. Summarize key findings to date**
- 2. Provide status updates of groundwater investigation**
- 3. Discuss plan for private well sampling**
- 4. Discuss next steps and schedule**

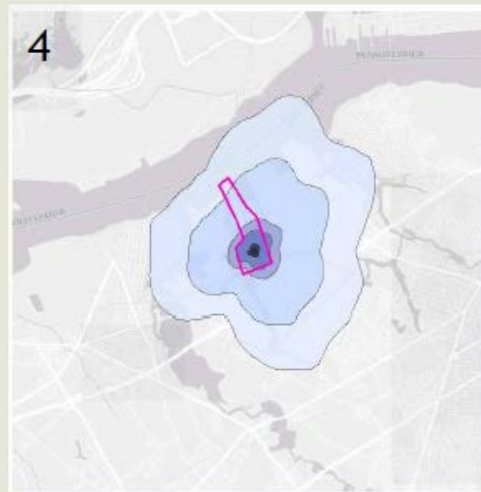
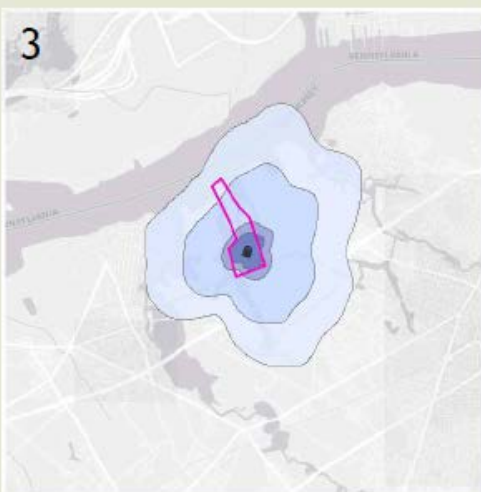
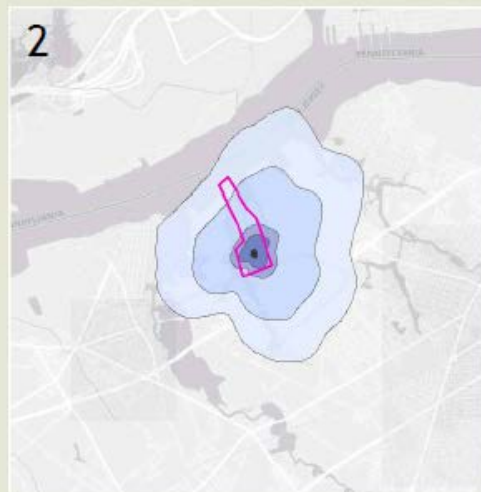
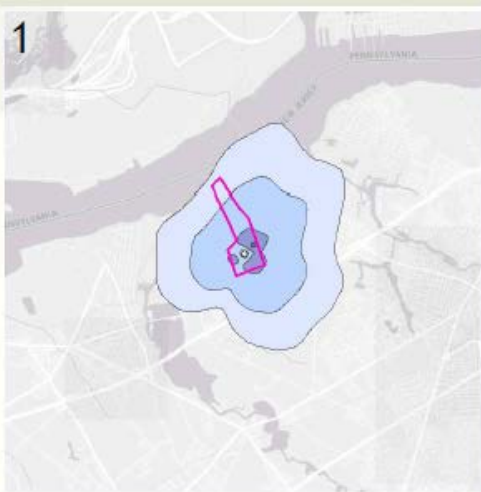
Investigation Scope

- Air modeling of historic PFC emissions
- Groundwater sampling for PFCs
 - Onsite/offsite monitoring wells
 - Public water system (PWS) wells
- Data evaluation to identify:
 - Primary transport pathway(s) to groundwater
 - PFC distribution from/near West Deptford Plant


Key Findings - Air

- Potential contribution of historic air emissions was relatively minor
 - Maximum deposition occurred within the facility boundary
 - May contribute to PFCs in onsite groundwater
 - Not likely to contribute to PFCs in PWS wells
 - Air deposition pathway is still under evaluation

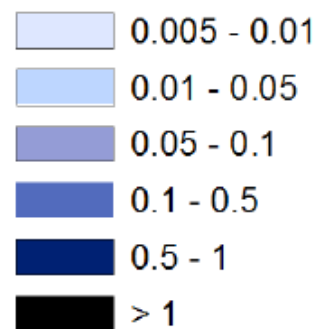
Air Model Results are Similar for Each Stack Scenario



Scenario	Percent of Unit Emission Rate:		
	Pt3001	Pt3002	Pt3004
1	100%	0%	0%
2	67%	16%	16%
3	50%	25%	25%
4	33%	33%	33%

 Solvay Property Boundary

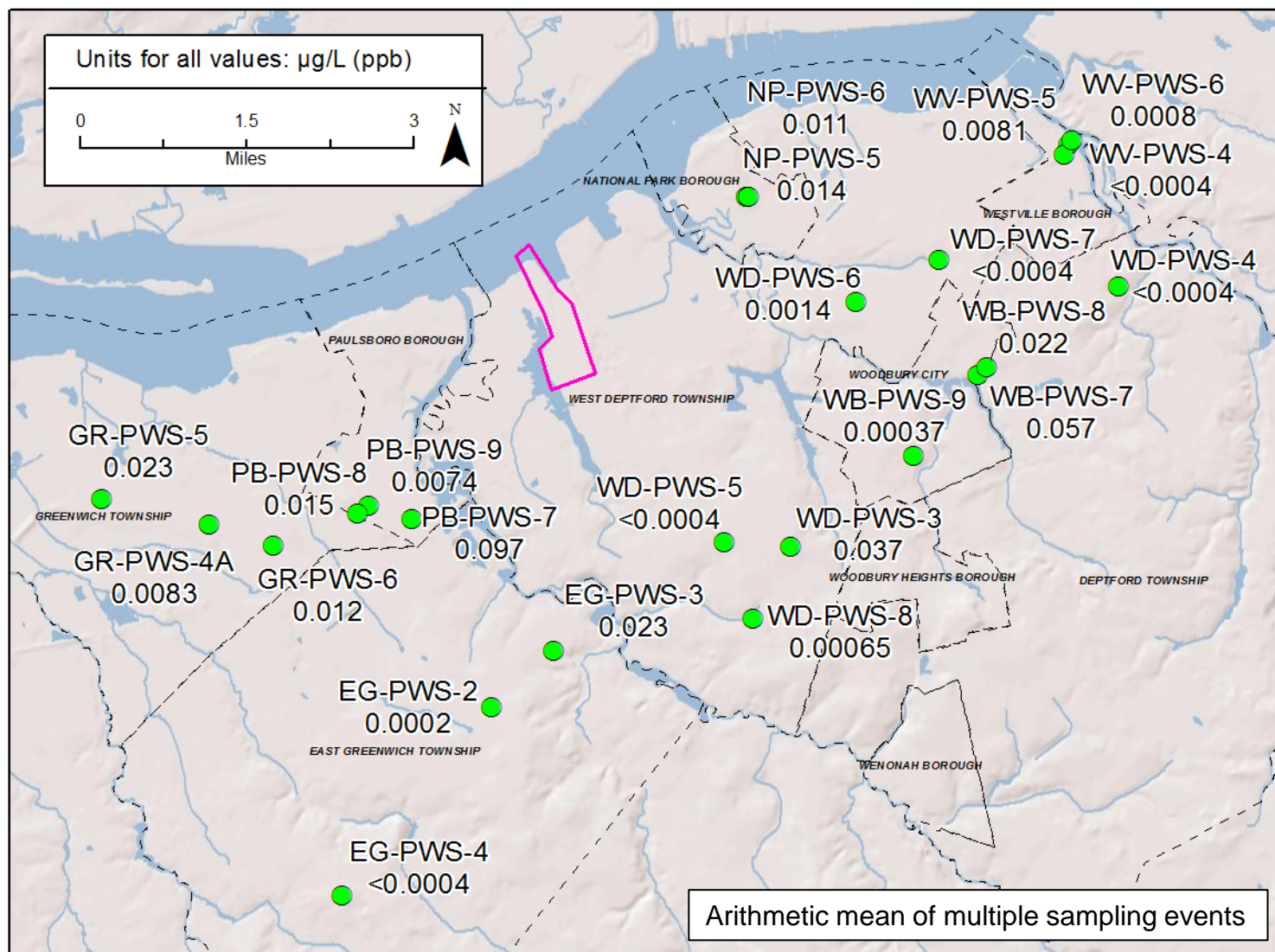
Total Deposition Flux for a Unit Emission Rate (g/m^2 per 1 g/s):



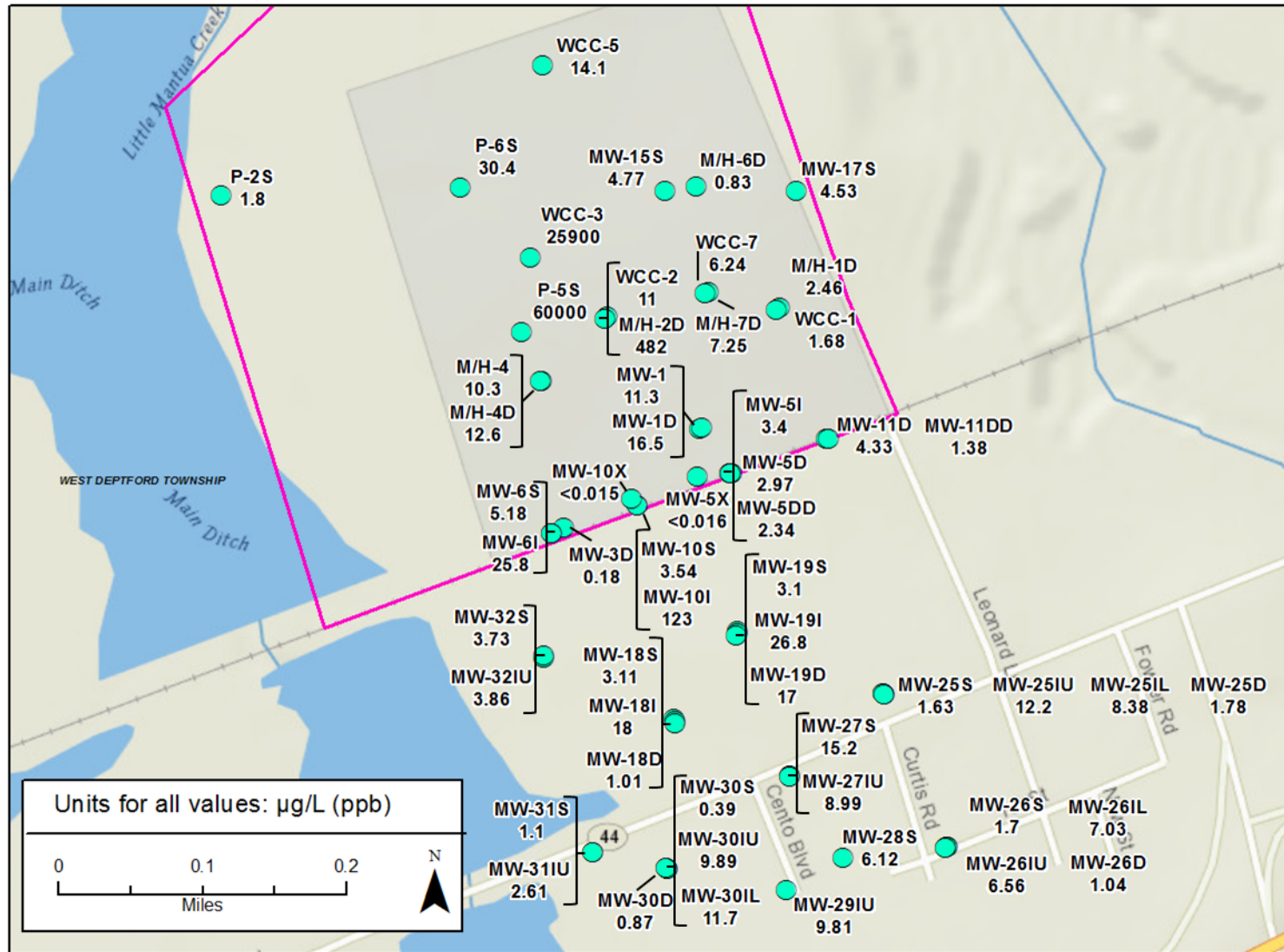
Key Findings – Groundwater Sampling

- PFCs detected in onsite/offsite monitoring wells and some PWS wells
- PWS data indicate:
 - Wells with elevated PFCs are completed in aquifer units that recharge from the Delaware River
 - PFCs decrease with distance inland from river
 - No apparent link between PWS wells and site groundwater
- Monitoring well data indicate:
 - Offsite transport in a preferential direction toward industrial park

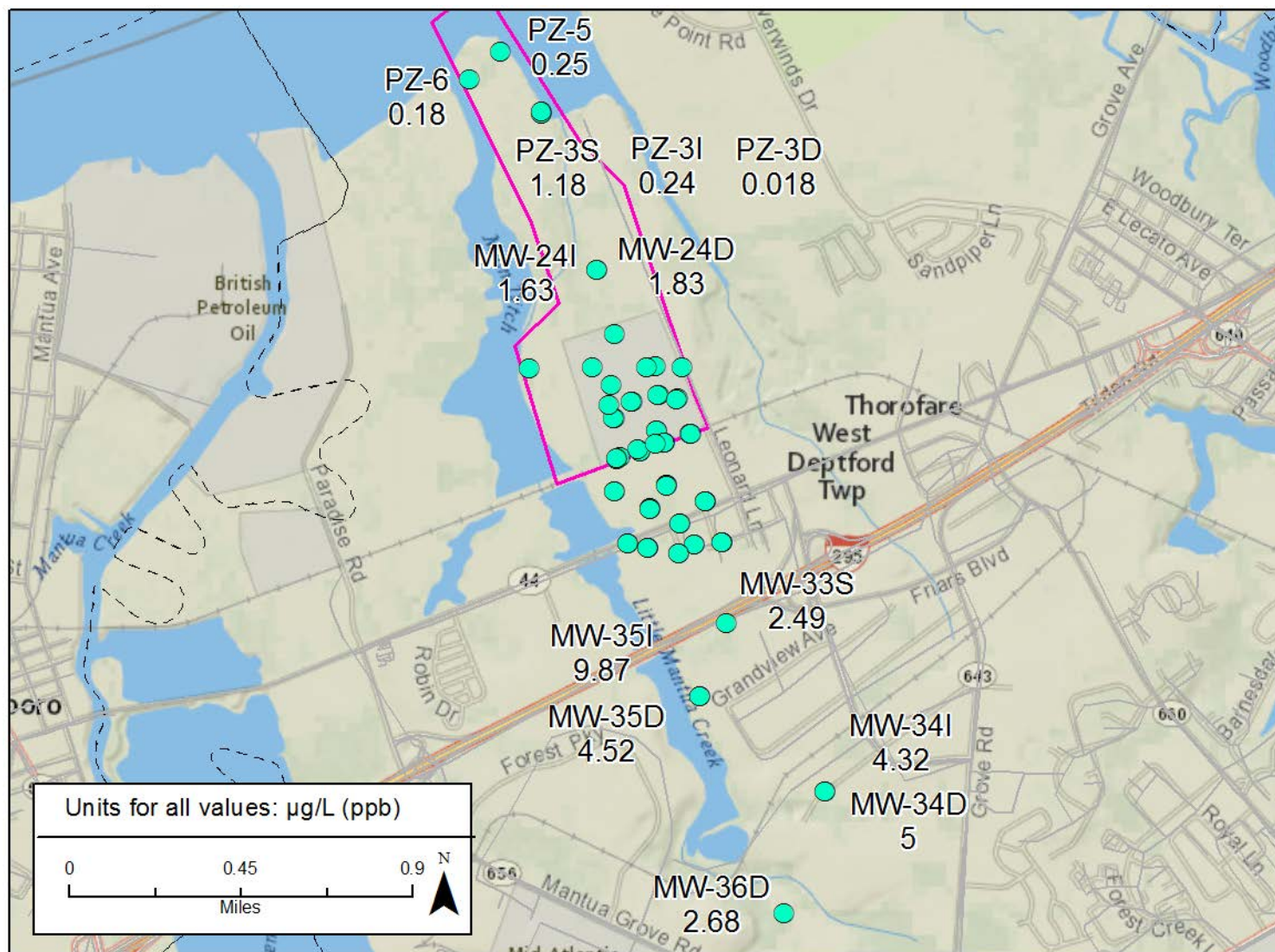
PWS Wells – PFNA



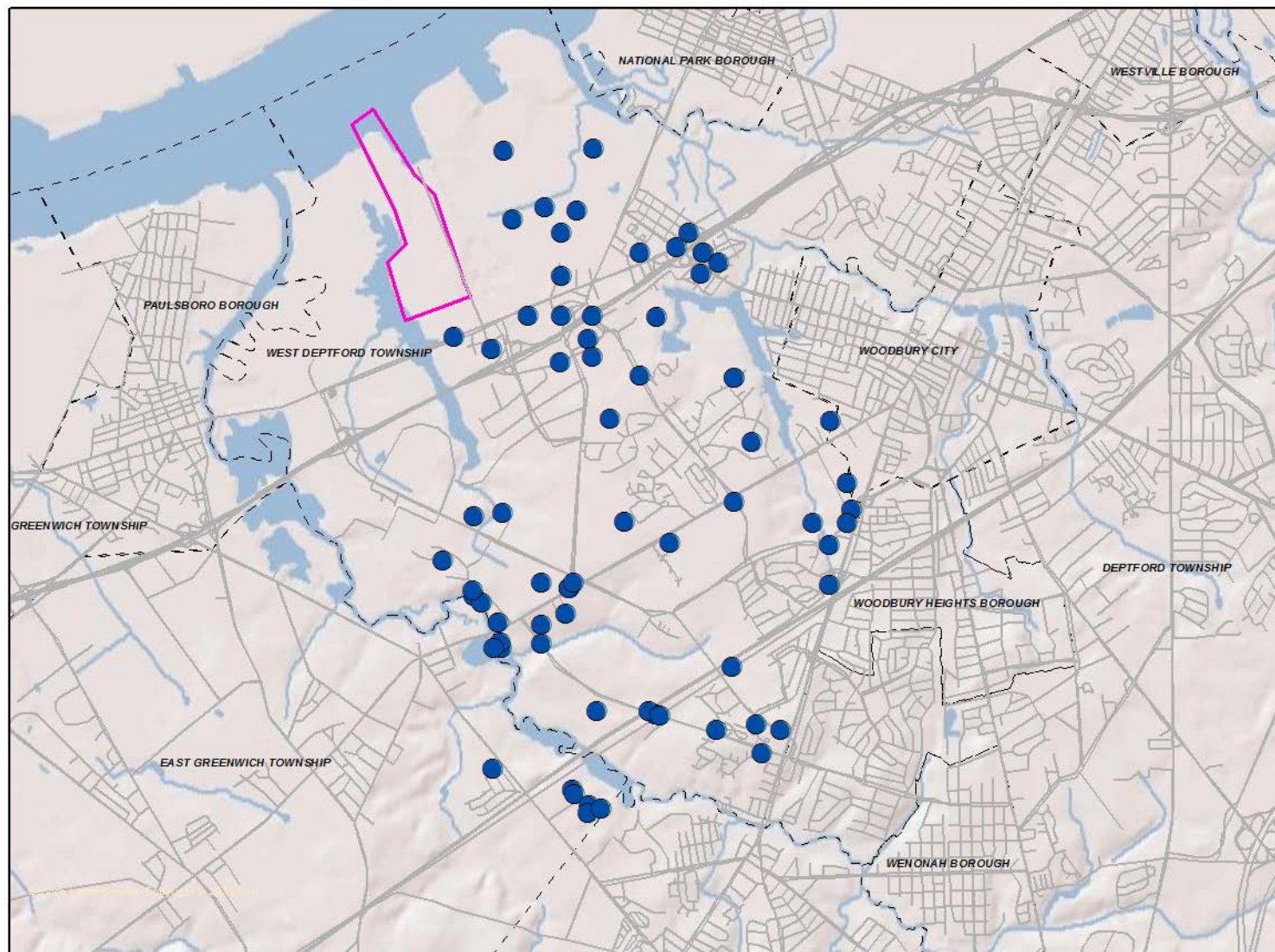
Solvay Monitoring Wells – PFNA (Closeup View)



Solvay Monitoring Wells – PFNA



Initial Private Potable Wells Sampling Area



Private Potable Well Sampling

Survey

- Well lists received from NJDEP and West Deptford township
 - Potable wells along the groundwater flow path downgradient of the Site
 - Includes other wells near but potentially outside of flow path
- Immediate Next Steps:
 - Communications: Municipal officials, NJDEP introductory letter similar to letter provided to PWS?
 - Gain access and canvass properties to field verify private potable wells
 - Expedite NJDEP notification ?
 - Sample identified and verified wells